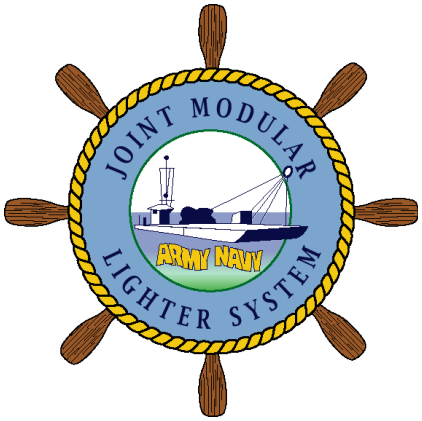


Joint Modular Lighter System Program Status

JLOTS R&D SYMPOSIUM V

2 February 2000

Cliff Lederer
Naval Facilities Engineering Service Center
JMLS Deputy Technical Manager

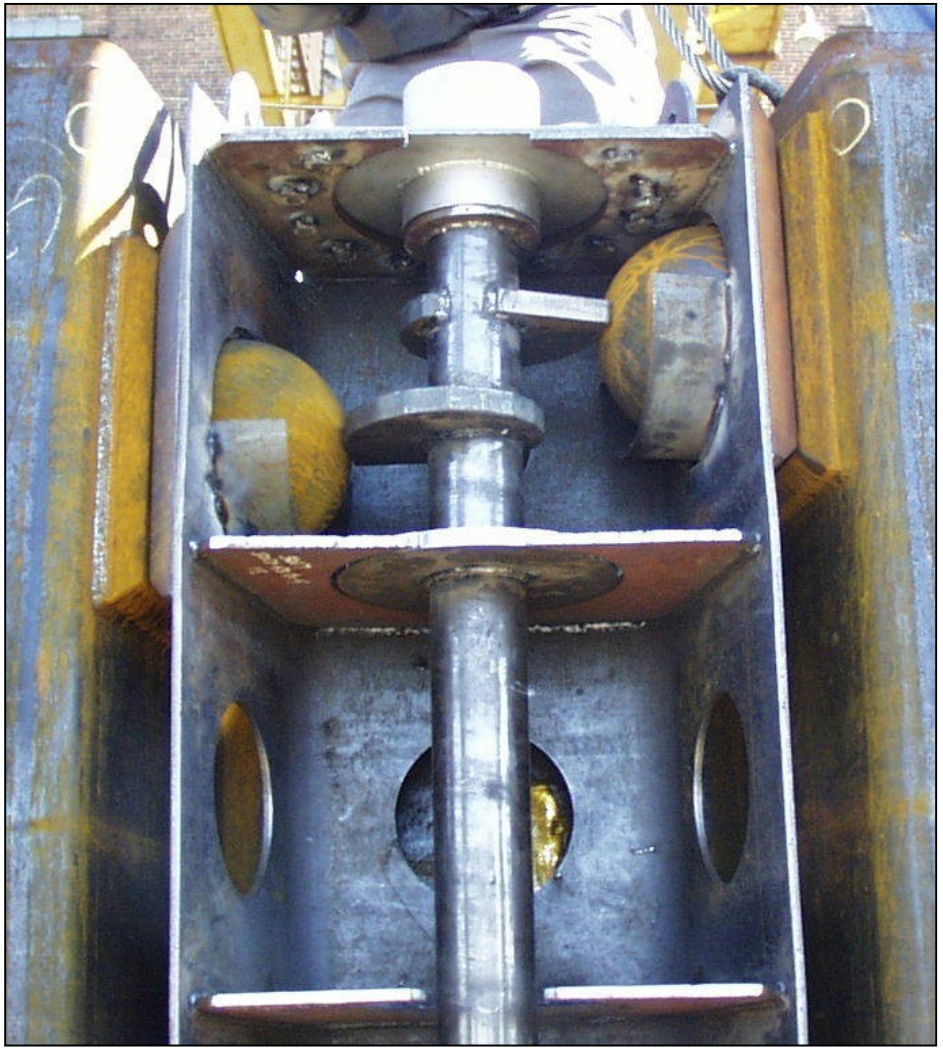
JMLS Definition

A ship-to-shore, sea state 3, in-stream offload capability for Army Transportation Group and Naval Beach Group

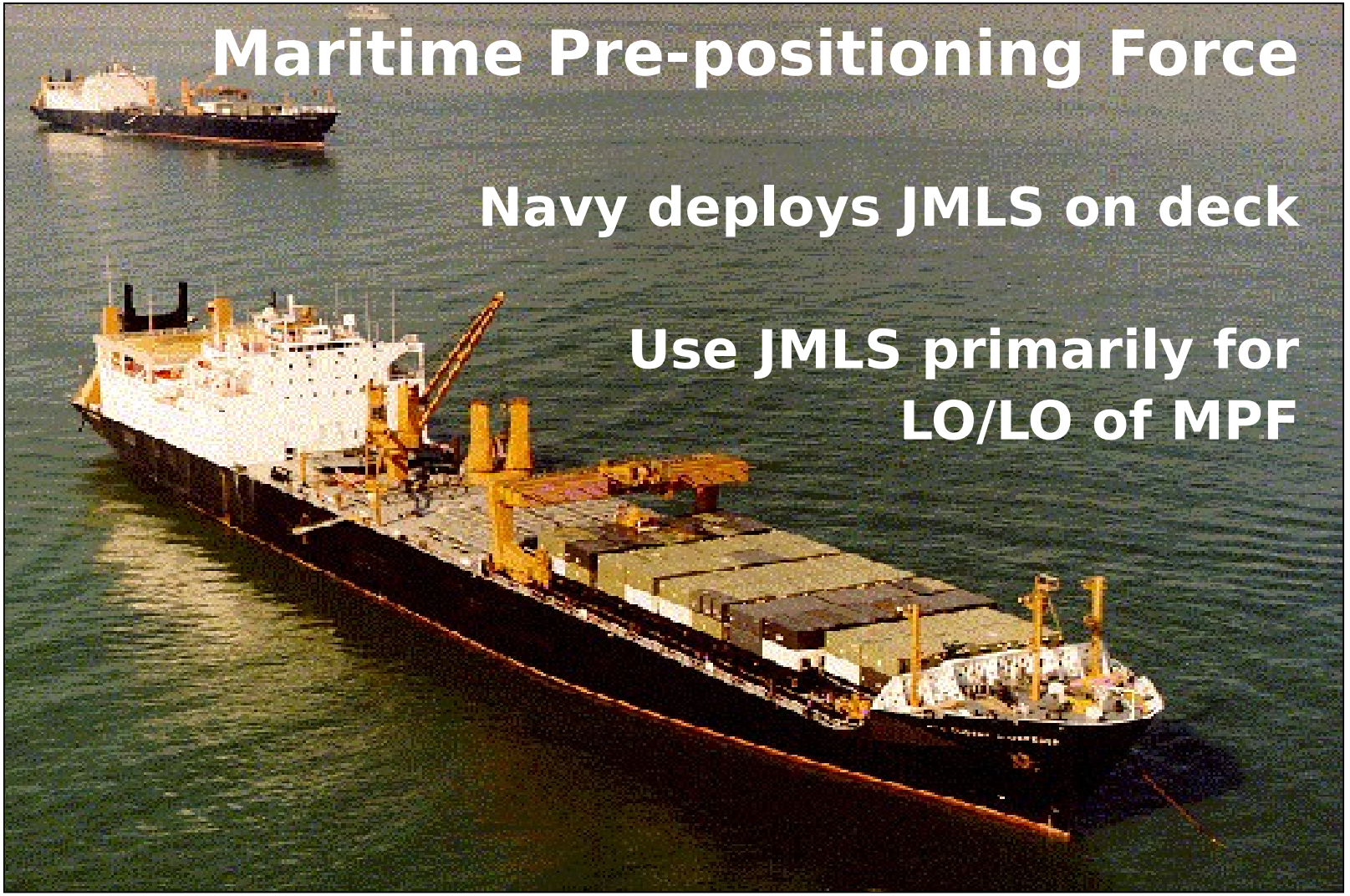
Modular

Flat End Module (clockwise) female end, male end, and UHMW non-skid deck

Modular



JMLS Navy Deployment



JMLS Army Deployment

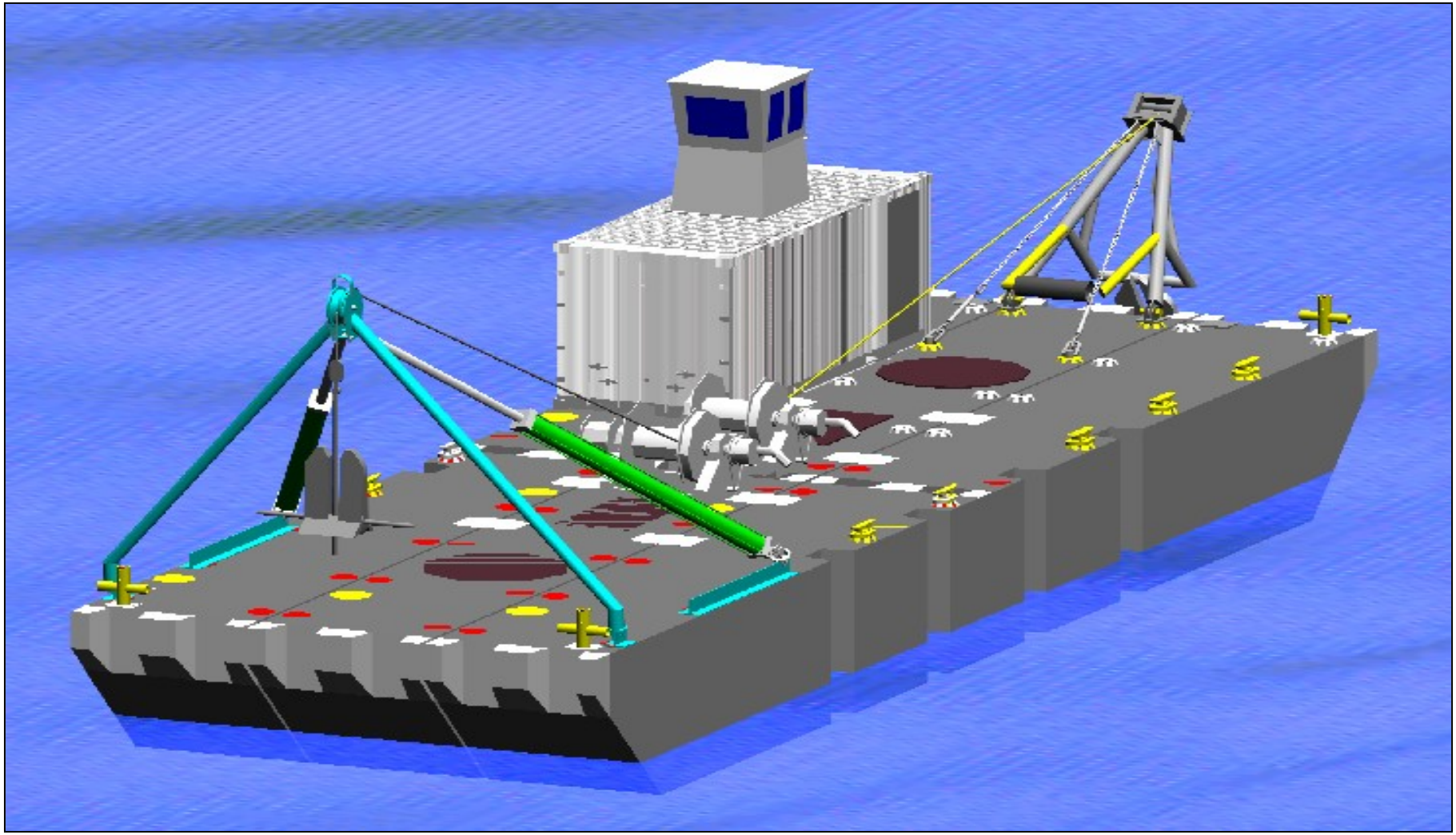
Afloat Pre-positioning Stocks

- **Army deploys JMLS in container cells of T-ACS**
- **Use JMLS primarily for RO/RO of LMSR**

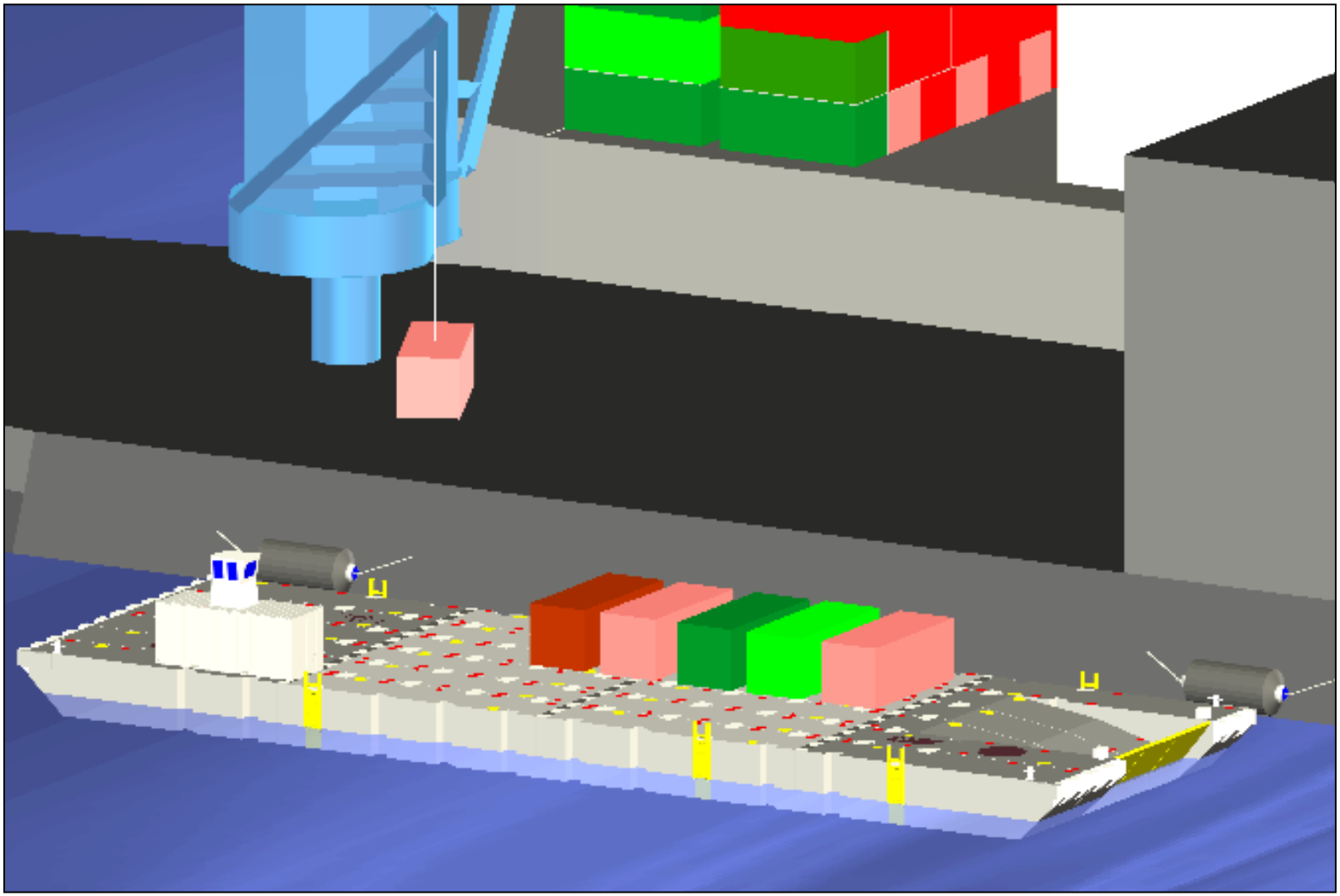
JMLS Subsystems

- Warping Tug (WT)
- Causeway Ferry (CF)
- Roll-On/Roll-Off Discharge Facility (RRDF)
- Air Cushion Vehicle Landing Platform (ACVLAP)
- Floating Causeway (FC)

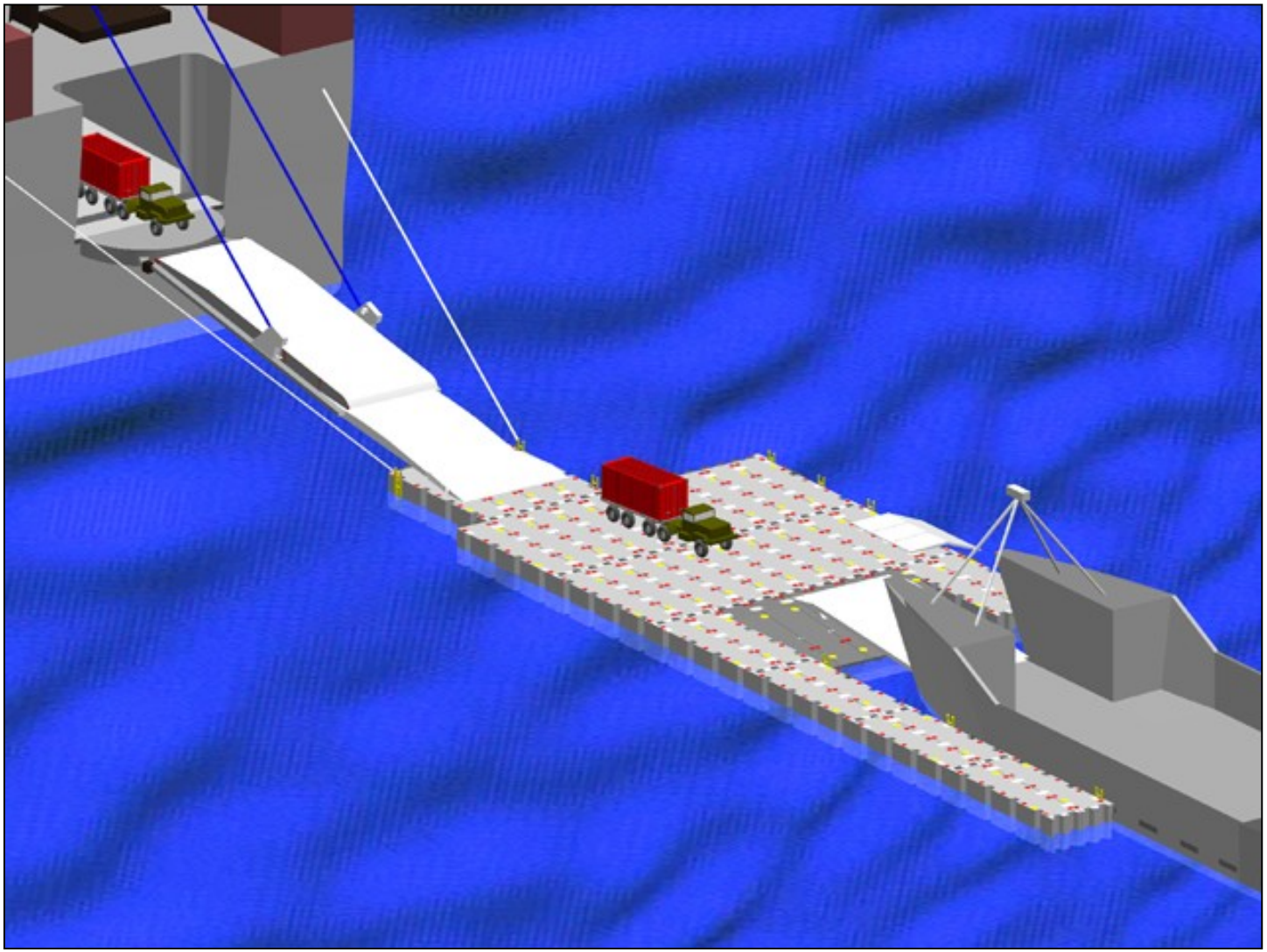
Warping Tug



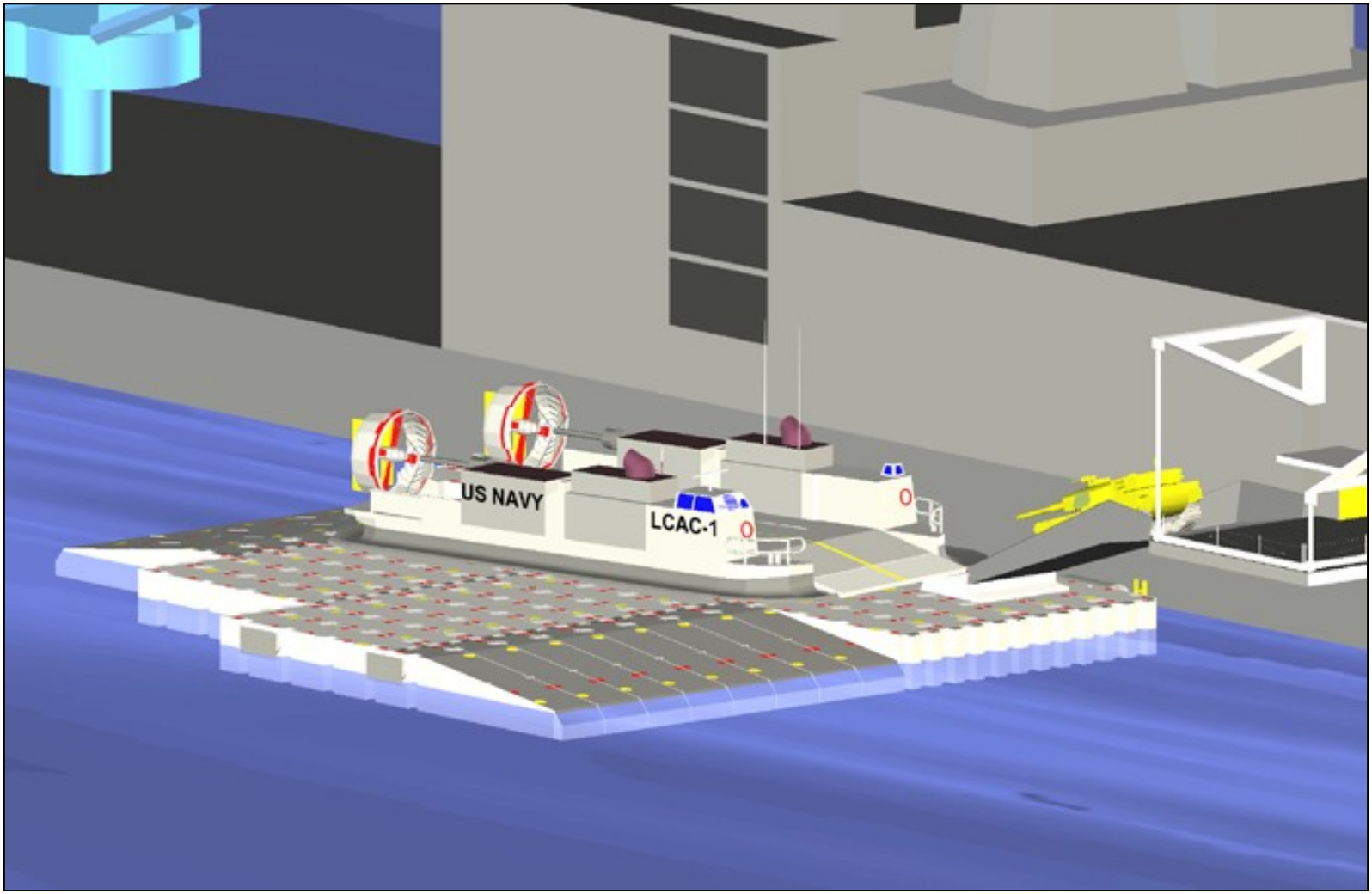
Causeway Ferry



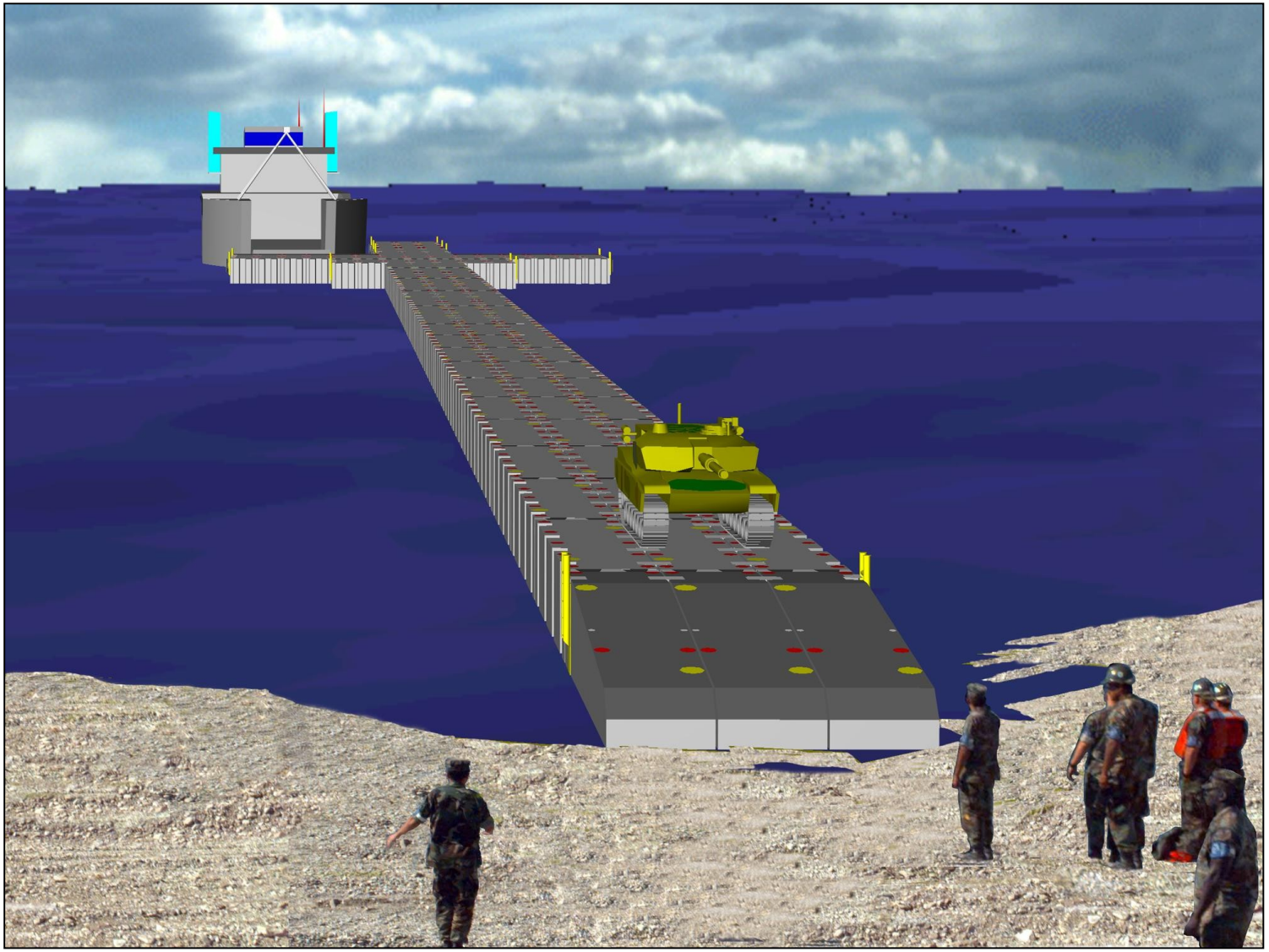
Roll-On/Roll-Off Discharge Facility



Air Cushion Vehicle Landing Platform



Floating Causeway



Status

- **Design and Phase II manufacturing complete**
- **Test and Evaluation**
- **Acquisition**
  - **ORD staffing complete; final approval imminent**
  - **Acquisition Planning underway**

Test and Evaluation

- **Calm Water Connections at BMI**
  - **July/Aug 99**
- **First Open Water Connection Tests at Little Creek**
  - **Sept/Oct 99**
- **Contractor Demonstration**
  - **Jan - Feb 00**
- **Military Utility Assessment**
  - **Mar - May 00**

~ End of ACTD ~

- **OPEVAL**
  - **FY 01**

Calm Water Connection Tests

Calm Water Connection Tests

- Successfully connected flat end modules end-to-end and side-to-side
- Conducted User Familiarization at end of test period

First Open Water Test

- Connection tests of flat end modules
- Gain experience
- Maximum encountered was high SS2 (~3.2 ft)
- Results were encouraging

First Open Water Tests

Contractor Demonstration

Arrival of RRDF at NAB Little Creek on 8 January 2000

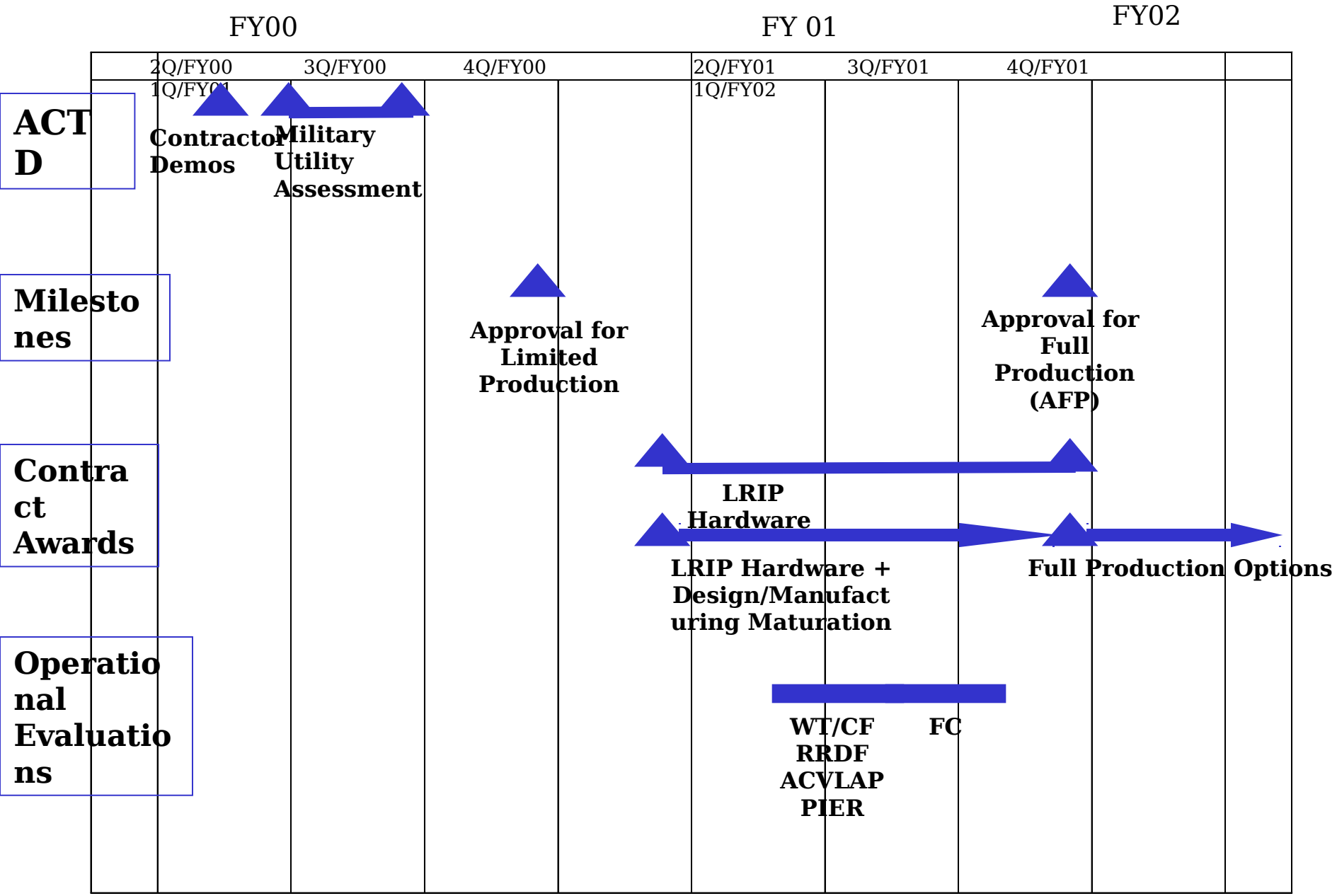
Contractor Demonstration

Arrival of Warping Tug and Causeway Ferry on 12 January

Contractor Demonstration

Causeway Ferry Beach Operations

Current JMLS Acquisition Strategy



Challenges

- Schedule
- Design Issues
- Ship space
- Power module mechanical systems

In terms of military utility, the design looks promising

Summary

- CINC's require a SS3 JLOTS capability
- JMLS program challenges (technical, schedule, funding, etc.) exist but are being managed
- Initial T&E success with calm water and near SS3 connections
- Contractor Demonstration in progress
- JMLS is
  - SS3 capable
  - Service interoperable
  - Intermodally transportable